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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/844,491	04/27/2001	William A. Cavallaro	17549-110	9115	
30623 7	7590 06/08/2004		EXAMINER		
	'IN, COHN, FERRIS, GI	WILSON, GREGORY A			
AND POPEO, ONE FINANC			ART UNIT	PAPER NUMBER	
BOSTON, MA 02111			3749		
			DATE MAILED: 06/08/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s)						
		09/844,491		CAVALLARO, WILLIAM A.						
	Office Action Summary	Examiner		Art Unit						
		Gregory A. \		3749						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)🖂	Responsive to communication(s) filed on <u>30 December 2003</u> .									
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.									
3)□	Since this application is in condition for allowan	•			e merits is					
	closed in accordance with the practice under E	Ex parte Qua	yle, 1935 C.D. 11, 45	3 O.G. 213.						
Disposit	ion of Claims									
5)⊠ 6)⊠	Claim(s) 17-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 17-26 is/are allowed. Claim(s) 27 and 28 is/are rejected. Claim(s) 29-34 is/are objected to. Claim(s) are subject to restriction and/or election requirement.									
Applicat	ion Papers									
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 										
Priority (under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Attachmer	nt(s)									
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)										
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		O-152)					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/844,491

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DETAILED ACTION

Response to Arguments

Applicant's arguments, see amendment C, filed 12/30/03, with respect to the rejection(s)of claim(s) 17 and 21-26 under Chanasyk et al have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Okuno et al (5,154,338) and Gibson (5,722,582).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 27 is rejected under 35 U.S.C. 102(b) as being anticipated by Okuno et al (5,154,338). Okuno et al discloses a furnace which conveys printed circuit boards and includes a conveyor which supports (2) the circuit board in a working position, a heater (15) having a plurality of parallel heating tubes (SEE Figure 2) mounted for heating a side of the printed circuit board and a means (17) for directing gas past the heater toward the circuit board.

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Claims 27 & 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Gibson (5,722,582). Gibson discloses a hot air circulation machine for printed circuit boards and includes a support (16) for supporting the circuit board in a working position, a heater (24) having a plurality of parallel hollow heating tubes (28 & 29) mounted for heating one side of the circuit board, a means for directing gas past the heater toward the circuit board is by way of holes (48) (SEE Figure 2) along the hollow tubes (28 & 29).

Allowable Subject Matter

Claims 17-26 allowed.

Claims 29-34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (703) 308-1239. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on (703)308-1935. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GREGORY WILSON PRIMARY EXAMINER

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June 3, 2004